

# ILLINOIS WEATHER & CROPS



## ILLINOIS COOPERATIVE CROP REPORTING SERVICE

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### CROP HI-LITES

\*\*\* Corn - 83% in dough stage, 35% dented  
\*\*\* Soybeans - 91% setting pods, 5% turning yellow  
\*\*\* Soil Moisture - 97% short, 3% adequate.

There were 6.75 DAYS SUITABLE for FIELDWORK for the week ending Friday, August 19. Again, widely scattered rain occurred during the week but did little to ease the drought conditions. Crop and pasture conditions continued to decline because of the hot, dry weather while comments indicate that insect problems were also getting worse.

Eighty-three percent of the CORN acreage was in the dough stage as of Sunday, August 21. Last year 87% was in the dough stage while the 5-year average (1978-82) was 82%. Thirty-five percent of the crop is dented, compared to 53% in 1982 and 43% for the average. Condition on Friday, August 19, was 4% good, 45% fair, 46% poor, and 5% a failure. In 1980, the corn condition on August 22 was 9% excellent, 20% good, 52% fair and 19% poor.

Ninety-one percent of the SOYBEAN acreage was setting pods on August 21, ahead of last year's 89% and the 5-year average of 86%. Five percent of the soybeans were turning yellow, compared to 4% for both 1982 and the 5-year average. Condition on August 19 was reported as 9% good, 60% fair and 31% poor. In 1980, the soybean condition on August 22 was 7% excellent, 42% good, 45% fair, and 6% poor. Reporters indicate that spider mites continue to be a problem in many areas of the State.

The third crop of ALFALFA HAY was 52% cut on August 21, compared to 55% last year and the average of 49%. Condition of alfalfa on August 19 was reported as 5% good, 31% fair, 61% poor and 3% a failure.

PASTURE condition on Friday, August 19 was reported as 8% fair, 70% poor, and 22% a failure. Many livestock producers are continuing to feed hay to supplement grazing.

SOIL MOISTURE on Friday, August 19, was reported as 97% short and 3% adequate.

### WEATHER

TEMPERATURES for the period of August 15 thru 21 averaged from 9 to 12 degrees above normal in the north and central sections and 4 to 9 degrees above normal in the South. The warm period continued for the sixth straight week as readings topped the 100-degree mark in many portions of the State. Springfield recorded the largest above normal departure (12 degrees). Some areas recorded new record maximum readings. A few places in the extreme South were slightly cooler with temperatures staying in the 90's.

PRECIPITATION was very light over much of the State with many areas receiving no rainfall. The North received the greatest amounts, but these showers were scattered. Chicago recorded the largest amounts with 1.50 inches.

The OUTLOOK for August 23 through 29 is for temperatures to be above normal and precipitation to be near normal.

### JULY WEATHER SUMMARY

Average monthly TEMPERATURES ranged from 4 to 5 degrees above normal throughout the State. The Northwest District had the largest above normal variation (5.0 degrees). Temperatures were below normal during the first week of the month with minimum readings falling into the 40's. A very warm period then developed and continued through the end of the month. Maximum temperatures climbed into the 90's and also past the 100-degree mark which set several new records.

PRECIPITATION was below normal in all districts except the Northeast with the West District the driest. Many stations received less than 0.50 of an inch with Cairo recording 0.39 of an inch for the fourth driest July on record. During the first week of the month, rainfall was light to moderate over the State while during the second week, a dry period developed. Light rain occurred during the third week with some locations in the North recording more than 1.0 inch. Locally heavy thunderstorms during the fourth week deluged parts of the State with more than 2.0 inches during a 24-hour period.

The EXTENDED OUTLOOK from August 15 to September 15 1983 is for temperatures to be above normal and precipitation to be below normal.

### STATE WATER SURVEY DIVISION

Last week, soil moisture was measured at sites of the Illinois Climate Network as follows:

Station	County	Inches of Soil Moisture	
		Total Soil Moisture, surface to 20"	Change in last half month
Freeport	Stephenson	3.4	-0.9
Shabbona	De Kalb	5.5	-0.0*
Monmouth	Warren	3.3	+0.1
Appleton	Knox	2.5	-0.1
Peoria	Tazewell	2.8	-0.2
Topeka	Mason	1.6	-0.6
Bondville	Champaign	3.7	-0.6
Perry	Pike	2.2	-0.7
Springfield	Sangamon	3.4	-0.4
Brownstown	Fayette	1.3	-1.1
Olney	Richland	2.2	-0.7
Salem	Marion	2.1	-0.6
Belleville	St. Clair	4.1	-0.3
Ina	Jefferson	2.7	-1.3
Carbondale	Jackson	1.6	-1.2
Dixon Springs	Pope	2.5	-1.4

\* Change in last month.

### ILLINOIS CROP REPORTING DISTRICT SUMMARY

Crop and Soil Characteristics	NW	NE	W	C	E	WSW	ESE	SW	SE	STATE	5-YR. AVG.
As of August 21, 1983											
Corn: % dented	35	29	40	40	30	34	30	44	34	35	43
Alfalfa: % 3rd crop cut	52	50	44	47	40	45	50	85	65	52	49
Days suitable for fieldwork (week ending 8/19)	7.0	6.5	7.0	6.5	5.5	7.0	6.5	7.0	7.0	6.75	
Soil moisture % (as of August 19)	Short: 100	85	100	100	90	100	100	100	100	97	
Adequate	0	15	0	0	10	0	0	0	0	3	

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CROP CONDITIONS BY REGIONS ON FRIDAY, AUGUST 19

	Corn					Soybeans				
	N	N.Cen.	S.Cen.	S	State	N	N.Cen.	S.Cen.	S	State
Good (%)	10	0	5	0	4	25	5	10	5	9
Fair (%)	75	35	25	15	45	70	60	55	40	60
Poor (%)	15	60	60	80	46	5	35	35	55	31
Failure (%)	0	5	10	5	5	0	0	0	0	0

PRELIMINARY DISTRICT PRECIPITATION AVERAGES AND DEPARTURES FROM NORMAL IN INCHES

	NW	NE	W	C	E	WSW	ESE	SW	SE
July	2.87	4.26	1.02	1.09	1.78	1.02	1.52	1.43	2.09
Departure	-1.26	+0.42	-3.07	-2.55	-2.23	-2.75	-2.17	-2.15	-1.74

MONTHLY AND WEEKLY TEMPERATURE DEPARTURES IN DEGREES

	June	July	July 26- August 1	August 2- 8	August 9- 15	August 16- 22
Chicago	+1	+4	+7	+6	+3	+10
Peoria	+1	+5	+7	+5	+3	+14
Springfield	+1	+4	+5	+4	+3	+12
St. Louis	+1	+5	+6	+6	+2	+13

Station	Week ending Monday, 6 A.M., August 22									
	Temperatures					Growing degree days 1/				
	Maxi-	Mini-	Aver-	Current	3-yr.	Totals	Totals			
	:mum	:mum	:age	: week	:av.2/	: 1982	: 1983			
Moline	:103	69	85.6	: 208	2497	2484	2505			
Rockford	: 99	62	82.1	: 193	2281	2281	2306			
Chicago O'Hare	: 99	67	81.5	: 196	2261	2196	2247			
Quincy	:102	70	87.3	: 215	2634	2448	2533			
Decatur	:103	62	83.7	: 202	2550	2441	2413			
Peoria	:102	68	86.3	: 210	2577	2543	2547			
Watseka 3/	: 96	59	79.4	: 184	2285	2268	2303			
Springfield	:101	66	85.3	: 205	2752	2668	2593			
Brownstown 3/	:103	66	85.4	: 207	2714	2595	2523			
St. Louis	:103	74	89.4	: 229	3021	2904	2881			
Union Springs 3/	: 98	69	84.1	: 205	3059	3055	2745			

- 1/ Totals are accumulated from April 1.  
2/ Average of accumulated totals for 1980, 1981 and 1982.  
3/ Two-year average--1980 not available.

Growing degree days (GDD's) are calculated by subtracting a 50° (F) base temperature from the average of the maximum and minimum temperatures for the day. The daily maximum temperature is limited to 86° (F) and daily minimum to 50° (F). Thus, if the mean temperature for the day is 75°, then 25 GDD's will have been accumulated.

Precipitation: Week ending August 22

Station	Accumulations						Departures	
	: Current	: Normal	: in 1983 since	: Apr. 1	: May 31	: Apr. 1	: May 31	
Rockford	: 0.50	0.84	14.97	6.09	- 4.74	- 5.82		
Chicago O'Hare	: 1.50	0.77	24.10	10.05	+ 7.06	- 0.39		
Watseka	: 1.31	0.77	17.80	7.68	- 2.20	- 3.92		
Peru	: 0.15	0.77	14.99	3.86	- 3.29	- 6.62		
Moline	: 0.36	0.84	15.34	8.54	- 4.70	- 3.40		
Peoria	: 0.05	0.77	19.91	6.35	+ 1.94	- 4.12		
Monmouth	: 0.15	0.84	14.69	6.39	- 3.81	- 4.91		
Quincy	: 0.01	0.77	13.65	3.04	- 4.03	- 7.14		
Springfield	: 0.13	0.70	12.67	4.58	- 3.80	- 4.69		
Decatur	: 0.18	0.84	22.86	8.08	+ 3.56	- 3.12		
Urbana	: 1.99	0.84	24.74	13.66	+ 6.29	+ 2.71		
Belleville	: 0.00	0.77	14.46	4.13	- 2.59	- 5.72		
Evansville, IN	: 0.12	0.70	26.06	6.90	+ 8.39	- 2.37		

1/ 30-year average (1951-80).

PRECIPITATION:  
First figure--Current week, 8/16-22  
Parentheses--Previous week  
M--Missing. T--Trace

